**Naval Postgraduate School Cyber Academic Group**

**Graduation Checklist for MS Applied Cyber Operations (MACO) Degree**

(Effective for students commencing in Fall AY13 or later)

Name/Rank/Service:

Month/Year Enrolled:

Projected Graduation Date:

**1. Master’s Capstone: Capstone *proposal is to be approved by end of the 2nd academic quarter.***

Title:

Advisor(s):

Second Reader:

**2. Core Courses: *All of the following courses must be completed or validated to graduate:***

Completed Planned Qtr

\_\_\_CY3000 Introduction to Cyber Systems and Operations (3-0) \_\_\_\_\_\_\_\_

\_\_\_CY3300 Cyber Communications Architectures (4-0) \_\_\_\_\_\_\_\_

\_\_\_CS3600 Introduction to Computer Security (4-2) \_\_\_\_\_\_\_\_

\_\_\_CY4600 Network Operations in a Contested Environment (3-2) \_\_\_\_\_\_\_\_

\_\_\_CY4700 or CY4710 Cyber Wargame: Blue or Red Force (2-5) \_\_\_\_\_\_\_\_

**3. Curriculum Requirements: *All of the following courses are part of the sponsor-approved curriculum and must be completed or validated by all USN students. Non-USN students are required to complete these courses unless directed by their sponsoring service or agency:***

Completed Planned Qtr

\_\_\_CS3030 Fundamentals of Computer Architecture and OSs (4-0) \_\_\_\_\_\_\_\_

\_\_\_CY3100 Introduction to Communications Networks (4-1) \_\_\_\_\_\_\_\_

\_\_\_CY3110 Internet Protocols (3-1) \_\_\_\_\_\_\_\_

\_\_\_IS3502 Network Operations I (3-1) \_\_\_\_\_\_\_\_

\_\_\_CY3602 Network Operations II (3-2) \_\_\_\_\_\_\_\_

\_\_\_CS3690 Network Security (4-1) \_\_\_\_\_\_\_\_

\_\_\_CY4410 Cyber Policy and Strategy (3-0) \_\_\_\_\_\_\_\_

\_\_\_CY4900 Research Topics in Cyber Systems and Operations (1-0) \_\_\_\_\_\_\_\_

\_\_\_CY4910 Cyber Systems and Operations Research Methods (1-0) \_\_\_\_\_\_\_\_

**4. Specialization Track Requirements: *All MACO students must complete one of the following Specialization Tracks.***

# Network Operations (NetOps) Specialization (required for USN enlisted cyber education program participants):

Completed Planned Qtr

\_\_\_CS3670 Secure Management of Systems (3-2) \_\_\_\_\_\_\_\_

\_\_\_CS3695 Vulnerability Assment and Risk Mitigation (3-2) \_\_\_\_\_\_\_\_

# Defense Specialization:

Completed Planned Qtr

\_\_\_CS4677 Computer Forensics (3-2) \_\_\_\_\_\_\_\_

\_\_\_CS4684 Cyber Security Incident Response and Recovery (3-2) \_\_\_\_\_\_\_\_

# Adversarial Techniques Specialization:

Completed Planned Qtr

\_\_\_CS4648 Advanced Cyber Munitions (3-2) \_\_\_\_\_\_\_\_

\_\_\_CS4678 Advanced Cyber Vulnerability Analysis (4-2) \_\_\_\_\_\_\_\_

**5. Upper-Level Graduate Hours: *All MACO students, regardless of sponsorship, must complete no fewer than 12 quarter hours of 4000-level coursework (do not relist courses identified in sections 2 through 4):***

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| ***Course Nbr*** | ***Title*** | ***Hours*** | ***Completed*** | ***Planned*** |
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**6. Graduate Hours: *All MASO students, regardless of sponsorship, must complete no fewer than 40 quarter hours of graduate-level coursework (do not relist courses identified in sections 2 through 5):***

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| --- | --- | --- | --- | --- |
| ***Course Nbr*** | ***Title*** | ***Hours*** | ***Completed*** | ***Planned*** |
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**7. Student Certification:** I certify the information contained on this form is correct.

Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_